MILAN KACAR

Software & Survey Engineer

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ABOUT ME

I am a Software Engineer & Survey Engineer with 3.5 years of professional experience. I graduated Geodesy at Graz University of Technology in Austria, where I work as a project and teaching assistant. I am currently enrolled in two Master's degree programs : Geodesy & Computer Science at the same university. I grew up in Mrkonjic Grad (Republic of Srpska, BA) where I finished my high school.

PERSONAL INFORMATION

👥 Date of birth	01.09.1995
📍 Birthplace	Banja Luka, BA
🏳 Citizenship	Austrian
❤ Marital status	Single
⚥ Sex	Male

EDUCATION

GYMNASIUM
📅 2010 - 2014   📍 Mrkonjic Grad, BA

BSc Geomatics Engineering
University of Technology, TU Graz
📅 2015 - 2019   📍 Graz, Austria

Master's Degree Programme - Geodesy
University of Technology, TU Graz
📅 2019-Present   📍 Graz, Austria

Master's Degree Programme - Computer Science
University of Technology, TU Graz
📅 2020-Present   📍 Graz, Austria

UNIVERSITY & PERSONAL PROJECTS

- SCIENTIFIC PAPER MINER - This project is GOOGLE for scientific papers. Based on the publishing institutions we define our market competitors and geocode their locations. [Python/WebScraper]
- POLLEN TREE DETECTOR (FROM SATELLITE IMAGES) - This project presents an automated tree detecting and identification method based on image processing of satellite imagery. [Python/keras/pytorch]
- STOCK PRICES PREDICTOR - Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect prices fluctuation for stocks considering different indexes (SP 500, Dow Jones, DAX etc.) [Python/keras/pytorch]
- RUSHB APP - New method to summon a waiter and order food in bars and restaurants. As a test page you can look at `http://www.dolcevita.rushb.app/client.php`. [JavaScript/PHP/Java]
- DIFFERENT SIGNAL PROCESSING PROJECTS - Mostly projects on GNSS signals. [C++]
- GRAVITY ANOMALY MAPS - GRACE misson. [Python/MATLAB]
- KALMAN FILTER · ADVANCED KALMAN FILTER · PARTICLE FILTER - as a part of indoor navigation. [C++]
- DIFFERENT ARDUINO PROJECTS - Mostly projects from youtube tutorials and combination of different projects. [C/Java/C++]

TECHNICAL STRENGTH

Skill	Level
Python	●●●●●
Google Cloud	●●●●●
C/C++	●●●●●
GIS	●●●●●
PostgreSQL	●●●●●
Navigation	●●●●●
Cloud computing	●●●●●
GNSS	●●●●●
Signal Processing	●●●●●
Java	●●●●○
Data Structures & Algorithms	●●●●○
MySQL	●●●●○
Docker	●●●●○
Java Script	●●●●○
PHP	●●●●○
Linux	●●●●○
R	●●●●○
Apache Spark	●●●●○
Scala	●●●○○

DISSERTATION WORK

BSc Thesis

Database for cycling routes

- Entity Relationship Diagram.
- Building the Database.
- Conversion from analog to digital maps.

MSc Thesis

PV (Photovoltaic) panels detection from satellite images

- Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect panels.
- Building an independent model to work on different datasets.
- Cloud computing
- YOLOv5

WORK EXPERIENCE

Teaching Assistant

TU Graz

📅 March 2021 - Present   📍 Graz, Austria

- Integrated navigation
- Sensor fusion
- Indoor navigation

Software Engineer

TU Graz

📅 Sep 2019 - Present   📍 Graz, Austria

- Software Architect
- Project management
- Automation
- Data Analysis
- ML forecasting
- Statistics
- Geoinformatics
- Automotive industry
- Automotive Battery and Electric Vehicle Testing

Survey Engineer

GEODATA

📅 July 2019 - December 2020   📍 Semmering Basistunnel, Austria

- Tunnel surveying
- 3D Laser scanner measurements

Data Scientist & Data Engineer

niceshops GmbH

📅 January 2021 - pending   📍 Vienna, Austria

- Finances (all types of tasks) - improving
- Cloud computing
- AI & ML tasks
- Looker platform
- Courses inside the house / teaching
- Research about demand forecasting
- Dynamic pricing

STRENGTHS

Hard-working   Decision Making

Ability to Work Under Pressure

Motivator & Leader

Conflict Resolution   Time Management

Target oriented   Able to travel

Flexibility and Adaptability

Problem solver

LANGUAGES

Serbian | Croatian | Bosnian
German
English
Russian

HOBBIES

Reading
I am trying to read a book per week.

Sports Addict
At a young age I enjoyed playing tennis, but my interests migrated towards Fitness and healthy food.

Travelling
After living in a rustic, small town for the past 18 years, I was craving change and adventure. Six years later, I've traveled to more places during college than the first two decades of my life.

Trading
I love to analyze the markets and factors that may impact the price on daily/weekly and long term basis.